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GGGCGCATATTCTCACTGACCTGGGTGGGGGGCTCCTGCA
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Fig. 1

MDCYLLLLLLLLLGLAGQGSADSHPEVLQAPVGSSIL
VQCHYRLQDVRALKVWCQFLQEGCHPLVTSVAVDRRA
PGNGRIFLTDLGGGLLQVEMVTLQEEDTGEYGCVVE
GAAGPQTLHRVSLLVLPPVPGPREGEEAEDEKETR
IGTGSLLEDPSLDPSASAGPHEFRRRENRCQKQCIP
LIWGAVLLLALVVVAVVIFAVMARKKGNRLVVCGPS
QSTGVPGMDPPSAHRSSDSGLPSDIPHVRLDSPPS
FDSIYTGSSLDPPSSEPPAPPSQPPLPPKVLMSKS
VTYATVVFPGGDKGKIASCEPVQDPPNSQTPPSK

Fig. 2

ATGGGCCTCACCCCTGCTCTTGCTGCTGCTCCTGGGACTAGA
AGGTCAGGGCATAGTTGGCAGCCTCCCTGAGGTGCTGCAGG
CACCCGTGGGAAGCTCCATTCTGGTGCAGTGCCACTACAGG
CTCCAGGATGTCAAAGCTCAGAAGGTGTGGTGCCGGTTCTT
GCCGGAGGGGTGCCAGCCCCTGGTGTCTCAGCTGTGGATC
GCAGAGCTCCAGCGGGCAGGCGTACGTTTCTCACAGACCTG
GGTGGGGGCCTGCTGCAGGTGGAAATGGTTACCCTGCAGGA
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CCCCCAGAGGAAGAAGAAGAGACCCATAAGATTGGCAGTCT
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CTTTGGAACCCAGCCAGGATGAGAAGAGCATCCCCTTGATC
TGGGGTGCTGTGCTCCTGGTAGGTCTGCTGGTGGCAGCGGT
GGTGCTGTTTGCTGTGATGGCCAAGAGGAAACAAGGGAACA
GGCTTGGTGTCTGTGGCCGATTCTGAGCAGCAGAGTTTCA
GGCATGAATCCCTCCTCAGTGGTCCACCACGTGAGTGAATC
TGGACCGGCTGCTGAATTGCCTTTGGATGTACCACACATTA
GGCTTGACTCACCACCTTCATTTGACAATACCACCTACACC
AGCCTACCTCTTGATTCCCCATCAGGAAAACCTTCACTCCC
AGCTCCATCCTCATTGCCCCCTCTACCTCCTAAGGTCCTGG
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GGAGGGAACAAGGGTGGAGGGACCTCGTGTGGGCCAGCCCA
GAATCCACCTAACAATCAGACTCCATCCAGCTAA

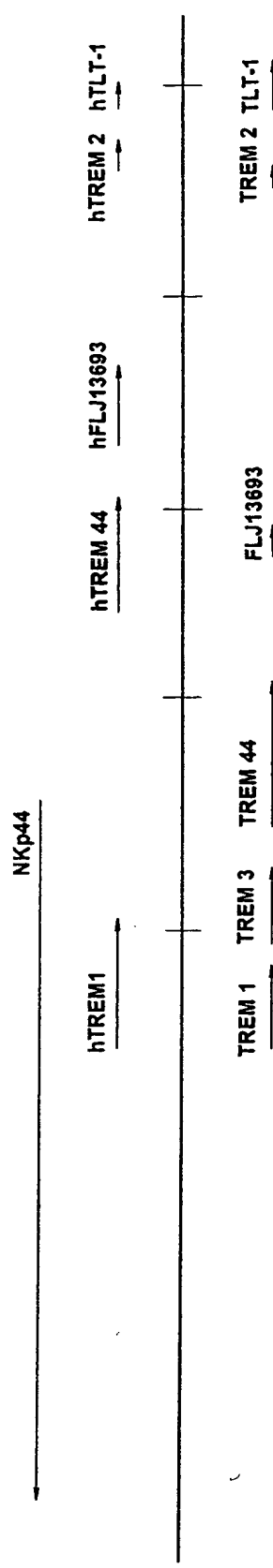
Fig. 3

MGLTLLLLLLLLGLEGQGI VGS LPEVLQAPVGSSILVQCHYR
LQDVKAQKVWCRFLPEGCQPLVSSAVDRRAPAGRRTFLTDL
GGLLQVEMVTLQEEDAGEYGCMVDGARGPQILHRVSLNIL
PPEEEETHKIGSLAENAFSDPAGSANPLEPSQDEKSIPLI
WGAVLLVGLLVAAVVLFAVMAKRKQGNRLGVCGRFLSSRVS
GMNPSSVVHHVSDSGPAAELPLDVPHIRLDSPPSFDNTTYT
SLPLDSPSGKPSLPAPSSLPPLPPKVLVCSKPVTYATVIFP
GGNKGGGTSCGPAQNPPNNQTPSS

Fig. 4

Genomic Organization of TREM Locus

Human Chromosome 6



Mouse Chromosome 17

TLT-1 Genomic structure



Figure 5

1c

mTLT-1	MDCYLLLLLLLLGLAGQGSADSHPEVLQAPVGS ^Δ ILVQCHYRLQDVRAIKVWCQFLQEGC	60
hTLT-1	.MGLT-----E---IVG-L-----K-Q-----R-P-----	59
mTLT-1	HPLV ^Y SAVDRRAPGNRIFLTDLGGLLQVEMVTLQEEDI ^Δ GEYGC ^Δ VEGAAGPQTLHRVS	120
hTLT-1	Q---S-----AGR-T-----A-----M-D---R---I-----	119
mTLT-1	LLVLPVPVGPGRDGEAEDEKETYRIGTCSLLEDPSLDPSASAGPHEFRRENRCQKQICIP	180
hTLT-1	-NI-----E-E--HK-....A-NAFS--AG--N-L-PSQD-.....KS--	163
mTLT-1	<u>LIWGAVLLLLALVVAVVIFAVMA</u> .RKKGNRLVCGPSQSTGVPGMPPSAHRSSDGS...	237
hTLT-1	-----VG-L-A---L-----K-Q-----G---RFL-SR-S--N-S-VV-HV-----PA	223
mTLT-1	..LPSDIPHVRLDSPPSFD.SIYTGSSLDPPSSBP..PAPPSQPPLPPK ^Δ VLMSSKS ^Δ	292
hTLT-1	AE--L-V--I-----NTT--SLP--S--GK-SL---S-L-----VC--P	283
mTLT-1	^Δ FPGGDKGKIASCEPVQDPPNSQTTPPSK*	322
hTLT-1	-----N--GGT--G-A-N---N---S-*	311

Figure 6

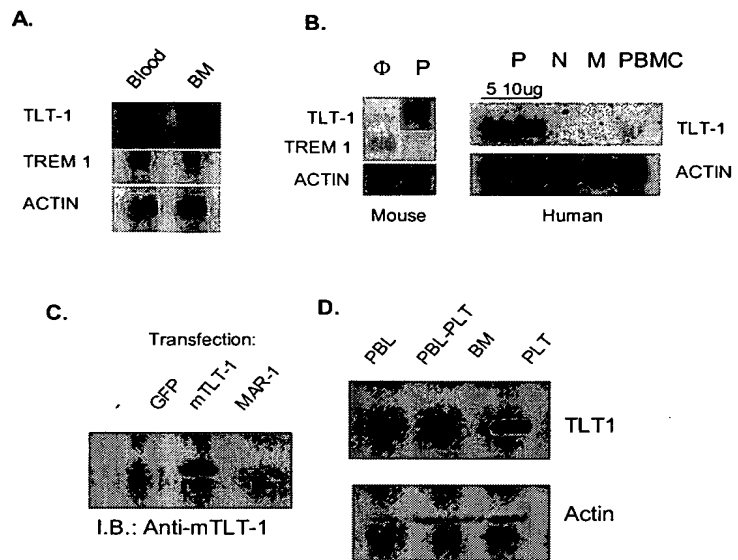
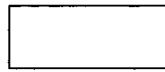


Fig. 7

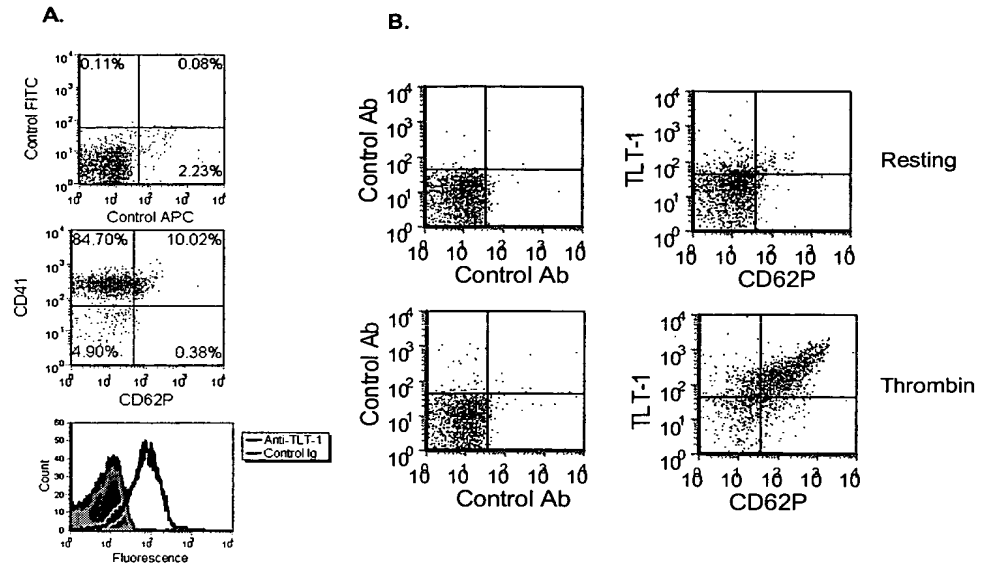


Fig. 8

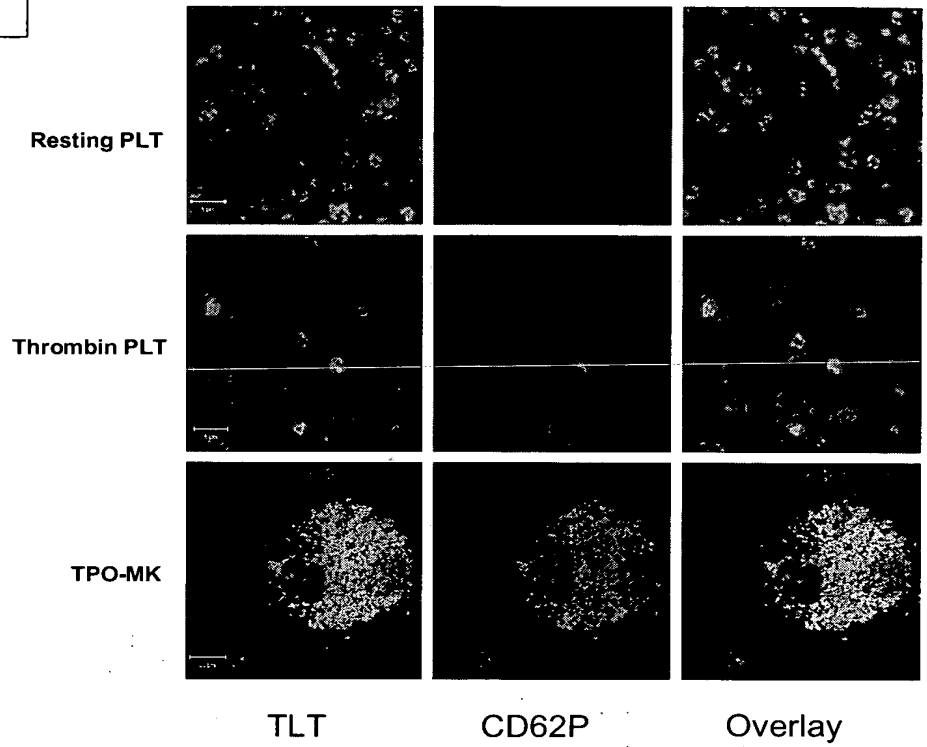
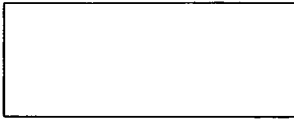


Fig. 9

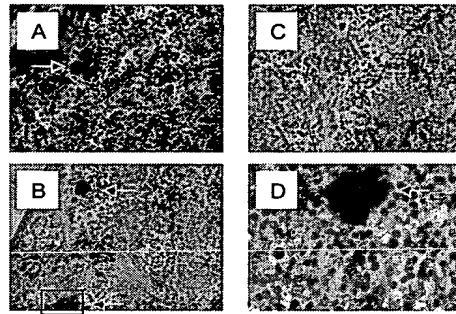


Fig. 10

GCCCTTAGAACCTACTACTGCCCAGCCATGGACTGCTACCT
GCTGCTGCTGCTGCTGCTCCTGGGACTAGCAGGCCAAGGCT
CAGCTGACAGTCATCCCGAGGTGCTACAGGCACCGGTGGGG
TCATCCATTCTAGTGCAGTGCCACTACCGGCTCCAGGATGT
GAGGGCTCTCAAGTCCCTGGCCCAAGAGATGGGGAGGAAGC
AGAGGACGAGAAAGAAACCTATAGAATCGGAACTGGAAGTC
TGCTCGAGGACCCCTCCTTGGACCCTTCCGCGAGTGCTGGT
CCTCACGAGTTCAGACGTCTGTGAGAACAGTATCCCCCTGAT
CTGGGGTGCTGTGCTCCTGTTGGCCCTGGTGGTGGTGGCTG
TGGTGATATTTGCTGTGATGGCCAGAAAGAAAGGGAACAGG
CTTGTTGTCTGT

Fig. 11

MDCYLLLLLLLLGLAGQGSADSHPEVLQAPVG
SSILVQCHYRLQDVRALKSLAQEMGRKQRTK
KPIESELEVCSRTPPWTLPRVLVLTSSDVVRT
VSP

Fig. 12

AGAACCTACTACTGCCCAGCCATGGACTGCTACCTGCTGCT
GCTGCTGCTGCTCCTGGGACTAGCAGGCCAAGGCTCAGCTG
ACAGTCATCCCGAGGTGCTACAGGCACCGGTGGGGTCATCC
ATTCTAGTGCAGTGCCACTACCGGCTCCAGGATGTGAGGGC
TCTCAAGGTGTGGTGCCAGTTCTTGCAAGGAAGGCTGCCACC
CACTAGTGACCTCAGCGGTGGACCGAAGAGCTCCGGGGAAC
GGGCGCATATTCTCACTGACCTGGGTGGGGGGCTCCTGCA
GGTGAAATGGTGACCCTGCAGGAGGAGACACAGGGGAGT
ATGGTTGTGTGGTGGAGGGAGCGGCAGGACCCAGACCCTG
CATAGGGTCTCCCTGTTGGTTCTTCCACCAGTCCCTGGCCC
AAGAGAGGGGGAGGAAGCAGAGGACGAGAAAGAAACCTATA
GAATCGGAACCGGAAGTCTGCTCGAGGACCCCTCCTTGGAC
CCTTCCGCGAGTGCTGGTCCTCACGAGTTCAGACGGCGTGA
GAACAGTATCCCCCTGATCTGGGGTGCTGTGCTCCTGTTGG
CCCTGGTGGTGGTGGCTGTGGTGATATTTGCTGTGATGGCC
AGAAAGAAAGGGAACAGGCTTGTTGTCTGTGGCCCGTCCCA
GAGCACTGGAGTTCCAGGAATGGACCCTCCCTCAGCAGCCC
ACCGTAGCAGTGACTCGGGACTACCCTCGGACATTCCACAT
GTGAGGCTCGACTCACCGCCTTCCTTTGACTCTATCTACAC
AGGCTCCTCTCTTGATCCACCATCAAGCGAACCCCCAGCTC
CACCCCTCACAGCCCCCTCTGCCTCCTAAGGTCCTGATGTCC
TCCAAGTCTGTGACATATGCCACAGTTGTCTTCCCAGGAGG
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TTAATTTATTACTCTTGGGATCACCCCTGGGGAATTCTCTG
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TCAGCGCCTGGTGACTCAGGGCTCCAATCTGGTATCTTGGT
TTGGTGCAGTCAGGGAGTGGTGCTCCGATATGATTGGGGTG
TTTGGGGAAAGAATTCTTTTCTGCTGCTTCCCGGTGCTGGG
TCTACCGTCATTACAT

Fig. 13

MDCYLLLLLLLLLGLAGQGSADSHPEVLQAPVG
SSILVQCHYRLQDVRALKVWCQFLQEGCHPLV
TSAVDRRAPGNGRIFLTDLGGGLLQVEMVTLQ
EEDTGEYGCVVEGAAGPQTLHRVSLLVLPPVP
GPREGEEAEDEKETRYRIGTGSLLLEDPSLDPSA
SAGPHEFRRRENSIPLIWGAVLLLALVVAVV
IFAVMARKKGNRLVVCGPSQSTGVPGMDPPSA
AHRSSDSGLPSDIPHVRLDSPPSFDSIYTGSS
LDPPSSEPPAPPSQPPLPPKVLMSKSVTYAT
VVFPGGDKGKIASCEPVQDPPNSQTPPSK

Fig. 14

CAGTGTGGTGGGAATTGCCCTTATGGGCCTCACCTGCTCTT
GCTGCTGCTCCTGGGACTAGAAGGTCAGGGCATAGTTGGCA
GCCTCCCTGAGGTGCTGCAGGCACCCGTGGGAAGCTCCATT
CTGGTGCAGTGCCACTACAGGCTCCAGGATGTCAAAGCTCA
GAAGGTGTGGTGGCGGTTCTTGCCGGAGGGGTGCCAGCCCC
TGGTGTCTCAGCTGTGGATCGCAGAGCTCCGGCGGGCAGG
CGTACGTTTCTCACAGACCTGGGTGGGGGCCTGCTGCAGGT
GGAAATGGTTACCCTGCAGGAAGAGGATGCTGGCGAGTATG
GCTGCATGGTGGATGGGGCCAGGGGGCCCCAGATTTTGCAC
AGAGTCTCTCTGAACATACTGCCCCCAGAGGAAGAAGAAGA
GACCCATAAGATTGGCAGTCTGGCTGAGAACGCATTCTCAG
ACCCTGCAGGCAGTGCCAACCCTTTGGAACCCAGCCAGGAT
GAGAAGAGCATCCCCTTGATCTGGGGTGCTGTGCTCCTGGT
AGGTCTGCTGGTGGCAGCGGTGGTGCTGTTTGCTGTGATGG
CCAAGAGGAAACAAGAATCCCTCCTCAGTGGTCCACCACGT
CAGTGACTCTGGACCGGCTGCTGAATTGCCTTTGGATGTAC
CACACATTAGGCTTGACTCACCACTTCATTTGACAATACC
ACCTACACCAGCCTACCTCTTGATTCCCCATCAGGAAAACC
TTCACTCCCAGCTCCATCCTCATTGCCCCCTCTACCTCATA
AGGTCTTGGTCTGCTCCAAGCCTGTGACATATGCCACAGTA
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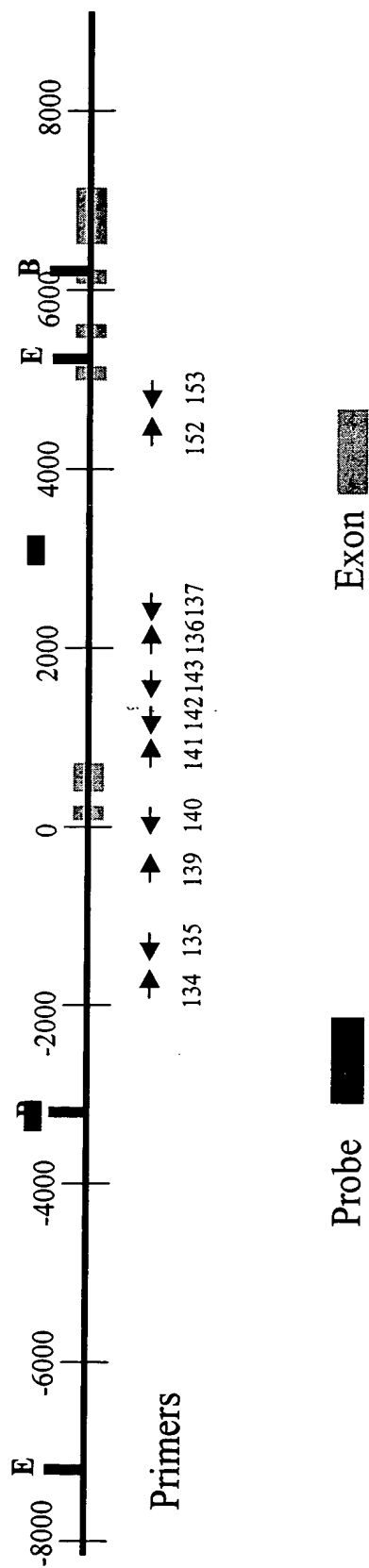
Fig. 15

MGLTLLLLLLLLGLEGGQGVGSLPEVLQAPVGS
SILVQCHYRLQDVKAQKVWCRFLPEGCQPLVS
SAVDRRAPAGRRTFLTDLGGGLLQVEMVTLQE
EDAGEYGCMVDGARGPQILHRVSLNILPPEEE
EETHKIGSLAENAFSDPAGSANPLEPSQDEKS
IPLIWGAVLLVGLLVAAVVLFAVMAKRKQESL
LSGPPRQ

Fig. 16

Fig. 17

TLT-1 Genomic Region



2 KB

Fig. 18

TLT-1 Knockout Construct

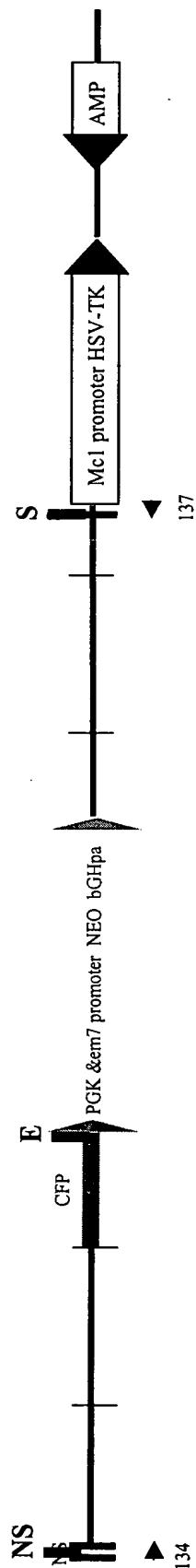


Fig. 19

